

- These particles were generated using Exodus (made by R. Averbeck)
  - P, K, charged  $\pi$ ,  $\pi^0$ ,  $\eta$ ,  $\eta'$   
Pt < 10 GeV/c with power law distribution.  
|Rapidity| < 1.5.  
Multiplicities of each particles were determined by  $dN_{\text{charge}}/dy(y=0)$  as input parameter.
  - Vector mesons ( $\omega$ ,  $\rho$ ,  $\phi$ ,  $J/\psi$ ,  $Y$ )  
Kinematics was same as other particle.



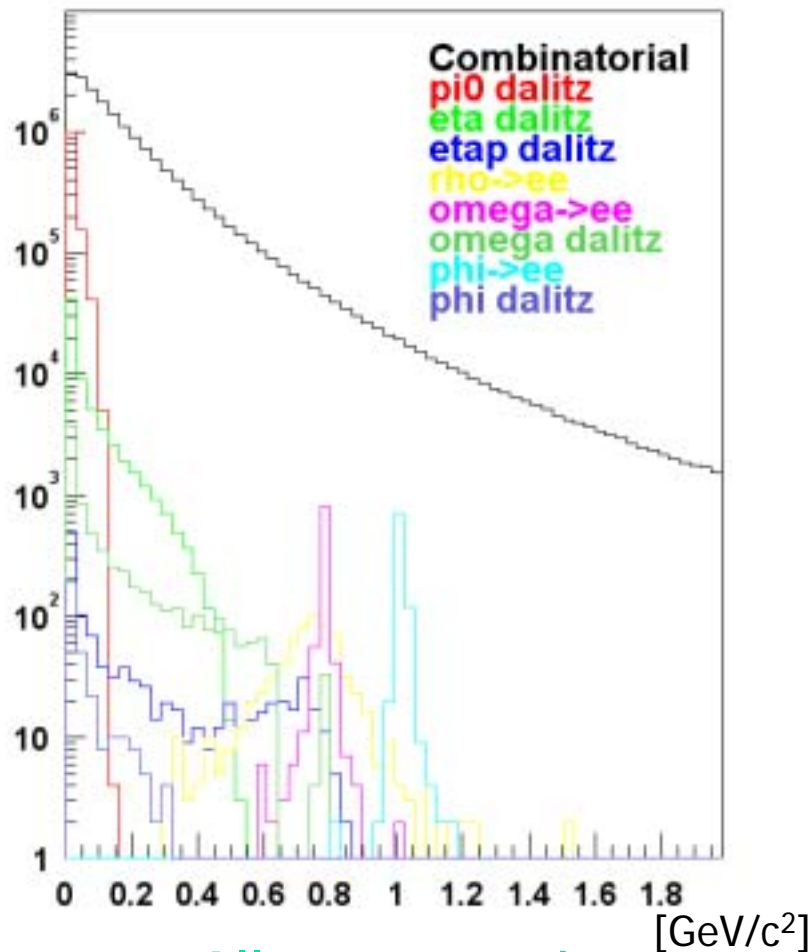
## Simulation Data (2)

- Particle decays were also simulated.
  - Dalitz decays of  $\pi^0$ ,  $\eta$ ,  $\eta'$
  - Vector mesons ( $\omega$ ,  $\rho$ ,  $\phi$ ,  $J/\psi$ ,  $Y$ ) decays
- Output format is OSCAR format as PISA input format.
- Central events ( $dN_{\text{charge}}/dy(y=0) = 650$ )
- 1.25 million events
- Ratio to  $dN/dy$ 

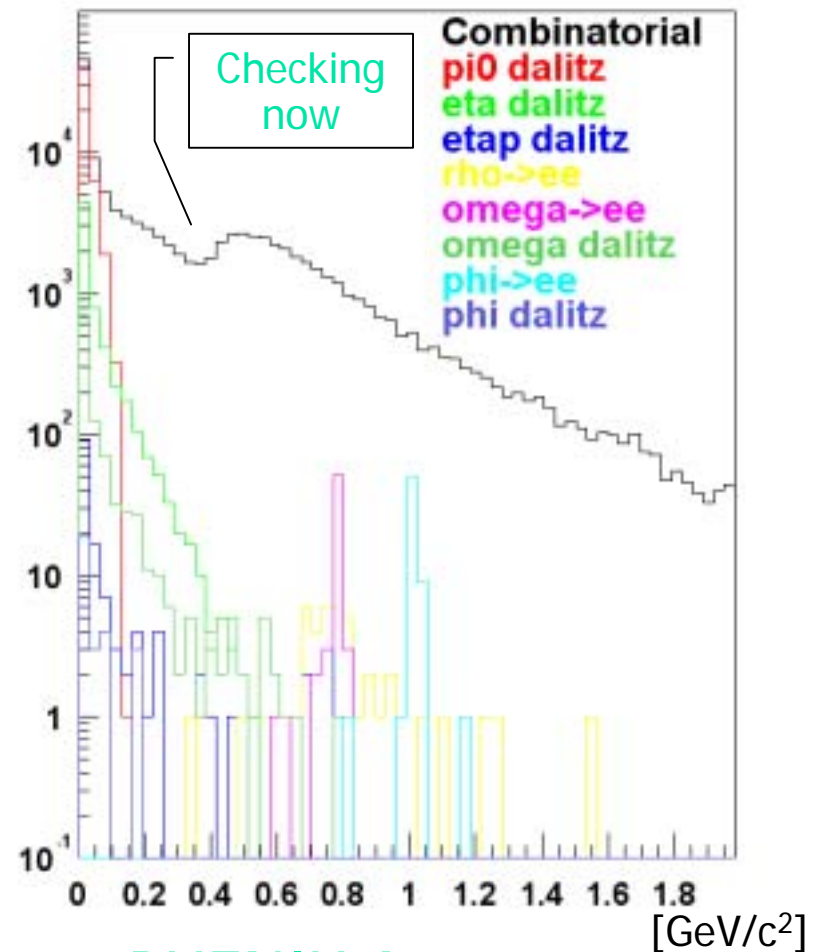
|              |       |             |        |
|--------------|-------|-------------|--------|
| • Charged Pi | 0.401 | • Eta       | 0.062  |
| • Charged K  | 0.062 | • Eta prime | 0.0080 |
| • Proton     | 0.039 | • Rho       | 0.056  |
| • Pi 0       | 0.445 | • Omega     | 0.054  |
|              |       | • Phi       | 0.0107 |

# Cocktail Plots

1.25 Million (Need more statistics)



All generated



PHENIX Acceptance